

Title (en)

Reaction solution for ink-jet recording, and ink-jet recording method using the solution

Title (de)

Reaktionslösung für Tintenstrahldruckaufzeichnung, und Tintenstrahlaufzeichnungsverfahren die diese Lösung benutzen

Title (fr)

Solution de réaction pour l'enregistrement par jet d'encre, et méthode d'enregistrement par jet d'encre utilisant cette solution

Publication

**EP 1400365 B1 20060308 (EN)**

Application

**EP 03020942 A 20030916**

Priority

- JP 2002270741 A 20020917
- JP 2003321449 A 20030912

Abstract (en)

[origin: EP1400365A1] A reaction solution that is used for image recording with an ink containing a coloring material in a dissolved or dispersed state to destabilize the dissolved or dispersed state of the coloring material in the ink in contact with the ink to provide high quality and abrasion-resistant images, wherein the reaction solution contains at least a polyvalent metal ion and a nonionic polymer, the Ka value according to the Bristow method is from 1.3 mL.m<-2>.msec<-1/2> to 3.0 mL.m<-2>.msec<-1/2> inclusive, and the viscosity is from 20 mPa.s to 150 mPa.s inclusive.

IPC 8 full level

**B41J 2/01** (2006.01); **B41M 5/00** (2006.01); **B41J 2/17** (2006.01); **B41J 2/175** (2006.01); **B41J 2/21** (2006.01); **C09D 11/00** (2014.01); **C09D 11/322** (2014.01); **C09D 11/324** (2014.01); **C09D 11/326** (2014.01); **C09D 11/38** (2014.01); **C09D 11/54** (2014.01)

CPC (source: EP US)

**B41J 2/2114** (2013.01 - EP US); **B41M 5/0017** (2013.01 - EP US); **C09D 11/30** (2013.01 - EP US); **C09D 11/40** (2013.01 - EP US); **C09D 11/54** (2013.01 - EP US)

Cited by

US10501654B2; EP3403840A4; WO2005105468A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1400365 A1 20040324**; **EP 1400365 B1 20060308**; AT E319576 T1 20060315; CN 1256241 C 20060517; CN 1495042 A 20040512; DE 60303848 D1 20060504; DE 60303848 T2 20061102; JP 2004130792 A 20040430; JP 4343632 B2 20091014; US 2004119800 A1 20040624; US 6935732 B2 20050830

DOCDB simple family (application)

**EP 03020942 A 20030916**; AT 03020942 T 20030916; CN 03157000 A 20030917; DE 60303848 T 20030916; JP 2003321449 A 20030912; US 66228203 A 20030916